

Title (en)

FIRE RETARDANT CABLES FORMED FROM HALOGEN-FREE AND HEAVY METAL-FREE COMPOSITIONS

Title (de)

FEUERHEMMENDE KABEL AUS HALOGENFREIEN UND SCHWERMETALLFREIEN ZUSAMMENSETZUNGEN

Title (fr)

CÂBLES IGNIFUGES FORMÉS À PARTIR DE COMPOSITIONS EXEMPTES D'HALOGENÈ ET EXEMPTES DE MÉTAUX LOURDS

Publication

EP 3635072 A4 20210421 (EN)

Application

EP 18813252 A 20180606

Priority

- US 201762516460 P 20170607
- US 2018036285 W 20180606

Abstract (en)

[origin: US2018355250A1] Fire retardant compositions including a base polymer, a fire retardant filler, and a fire retardant synergist are disclosed. The fire retardant compositions are halogen-free and heavy metal-free and can be crosslinked to form a cable insulation layer or a cable jacket. The cables can pass the UL VW-1 flame test. Cables having coverings formed from such fire retardant compositions are also described herein.

IPC 8 full level

H01B 7/295 (2006.01); **C08K 3/016** (2018.01); **C09K 21/04** (2006.01); **H01B 3/44** (2006.01)

CPC (source: EP US)

C08F 210/02 (2013.01 - US); **C08J 3/24** (2013.01 - US); **C08K 3/016** (2018.01 - EP US); **C08K 3/04** (2013.01 - US); **C08K 3/22** (2013.01 - US); **C08K 3/2279** (2013.01 - US); **C08K 3/32** (2013.01 - US); **C08K 3/346** (2013.01 - US); **C08K 3/38** (2013.01 - US); **C08L 23/26** (2013.01 - US); **C09K 21/04** (2013.01 - EP US); **H01B 3/448** (2013.01 - EP US); **H01B 7/295** (2013.01 - EP US); **C08F 2800/20** (2013.01 - US); **C08J 2323/08** (2013.01 - US); **C08K 2003/026** (2013.01 - EP US); **C08K 2003/2224** (2013.01 - EP US); **C08K 2003/327** (2013.01 - US); **C08K 2003/387** (2013.01 - EP US); **C08K 2201/019** (2013.01 - EP US); **C08L 2201/02** (2013.01 - US); **C08L 2203/202** (2013.01 - US); **C08L 2205/025** (2013.01 - US); **C08L 2312/08** (2013.01 - US)

C-Set (source: EP US)

1. **C08K 3/016 + C08L 23/0853**
2. **C08F 210/02 + C08F 218/08**

Citation (search report)

- [XII] US 2006189737 A1 20060824 - PIESLAK GEORGE [US], et al
- [XII] EP 2805994 A1 20141126 - MITSUI CHEMICALS INC [JP]
- [XII] US 2011168425 A1 20110714 - BASFAR AHMED ALI [US], et al
- See also references of WO 2018226851A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 10465118 B2 20191105; **US 2018355250 A1 20181213**; AU 2018280145 A1 20191212; AU 2018280145 B2 20230629; BR 112019025906 A2 20200630; CA 3064772 A1 20181213; CA 3064772 C 20230822; CL 2019003566 A1 20200605; EP 3635072 A2 20200415; EP 3635072 A4 20210421; EP 3635072 B1 20230802; EP 3635072 C0 20230802; ES 2962279 T3 20240318; WO 2018226851 A2 20181213; WO 2018226851 A3 20200326

DOCDB simple family (application)

US 201816001617 A 20180606; AU 2018280145 A 20180606; BR 112019025906 A 20180606; CA 3064772 A 20180606; CL 2019003566 A 20191206; EP 18813252 A 20180606; ES 18813252 T 20180606; US 2018036285 W 20180606